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**COMPARISON OF A STANDARD CENTIMETER RULED ON  
GLASS BY CHAS. FASOLDT, WITH  
CENTIMETER SCALE A.**

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In order to distinguish this scale from a similar one owned by this Society, and ruled by the same maker, I have, with a writing diamond, marked it on the under side "Fasoldt I." The lines on this scale by transmitted light are very beautiful. By reflected light, while not so easily seen, they could still be seen with sufficient distinctness to make a reasonably correct comparison. These comparisons were made with the same apparatus described in a former paper read at this session, using a Bausch & Lomb  $\frac{3}{4}$ " opaque illuminator and Bullock filar micrometer, one division of which =  $0.2992\mu$ .

DATE.			
Oct. 6,	1886.	Fasoldt I.	$-1.91\mu = A$
" 7,	"	"	$-3.23\mu = "$
" 8,	"	"	$-3.43\mu = "$
" 9,	"	"	$-3.26\mu = "$
" "	"	"	$-5.36\mu = "$
" "	"	"	$-3.38\mu = "$
" 10,	"	"	$-2.78\mu = "$
" "	"	"	$-3.17\mu = "$
" "	"	"	$-2.54\mu = "$
" "	"	"	$-2.63\mu = "$
" "	"	"	$-3.47\mu = "$
" 11,	"	"	$-3.89\mu = "$
" 12,	"	"	$-2.54\mu = "$
" 13,	"	"	$-3.26\mu = "$
" 14,	"	"	$-3.02\mu = "$
" 15,	"	"	$-1.97\mu = "$
" 16,	"	"	$-4.19\mu = "$
" 17,	"	"	$-2.90\mu = "$
" "	"	"	$-3.74\mu = "$
" "	"	"	$-2.87\mu = "$

Mean of 20 comparisons: Fasoldt I.  $-3.18\mu = "A."$

Assuming that at  $62^{\circ}$  F. centimeter scale "A," has no sensible correction, it follows that Fasoldt I.  $-3.18\mu = 1\frac{1}{10} A_0$ .